

# Annual Report of Operations for Year \_\_\_\_\_

To comply with NPDES General Permit No. WAG130000 for Federal Aquaculture Facilities and Aquaculture Facilities Located in Indian Country within the Boundaries of the State of Washington

NPDES # for your Facility:	
Facility & Owner Information	
Facility Name:	
Operator Name (Permittee):	
Address:	
Email:	Phone:
Owner Name (if different from operator):	
Email:	Phone:
Best Management Practices (BMP) Plan	
Has the BMP Plan been reviewed this year? $\ \square$ Yes $\ \square$ No	
Does the BMP Plan fulfill the requirements of the General Permit?	☐ Yes ☐ No
Summarize any changes to the BMP Plan since the last annual report	t. Attach additional pages if necessary.

### **Operations and Production**

	weight produced in d to fish during the		year in pounds (lbs	5):	
	own or held at you I rather than harves			each in gross harve	stable weight. If
Species	Fish Produce	Fish Produced  Receiving Water(s) to which Fish were Released  Spawned		Month Released/ Spawned	
	low with production ount of food fed <b>pe</b>		past year. List the	e <b>maximum</b> amount	t of fish on-site and
Month	Total Fish (lbs)	Fish Feed (lbs)	Month	Total Fish (lbs)	Fish Feed (lbs)
January			July		
February			August		
March			September		
April			October		
May			November		
June			December		
			•	•	
Additional Comme	ents:				

### **Solid Waste Disposal**

Describe the solid waste disposed of during the calendar year (including fish mortalities).

Type of Solid Disposed	Date Disposed	Location Disposed
Additional Comments:		

### **Fish Mortalities**

Include a description and the dates of mass mortalities in the past year (more than 5% per week). Attach additional pages, if necessary. Include total mortalities from all causes.

Date	Cause of Deaths	Steps Taken to Correct Problem	Pounds of Fish
Additional Com	ments:		

### **Noncompliance Summary**

Include a description and the dates of noncompliance events (including spills), the reasons for the incidents, and the steps taken to correct the problems. Attach additional pages, if necessary.

# **Inspections & Repairs for Production & Wastewater Treatment Systems**

Date Inspected	Date Repaired	Description of System Inspected and/or Repaired

### **Aquaculture Drugs and Chemicals**

Please indicate whether you used each drug/chemical  ${\bf during\ the\ past\ calendar\ year}.$ 

Describe the use of each drug/chemical in more detail on the following pages.

Used in the past year?	Drug or Chemical
□ Yes □ No	Azithromycin
□ Yes □ No	Chloramine-T: See additional reporting requirements on page 7
□ Yes □ No	Chlorine
□ Yes □ No	Draxxin
□ Yes □ No	Erythromycin - injectable
□ Yes □ No	Erythromycin - medicated feed
□ Yes □ No	Florfenicol (Aquaflor)
□ Yes □ No	Formalin - 37% formaldehyde: See additional reporting requirements on page 7
□ Yes □ No	Herbicide - describe:
□ Yes □ No	Hormone - describe:
□ Yes □ No	Hydrogen Peroxide: See additional reporting requirements on page 7
□ Yes □ No	Iodine: See additional reporting requirements on page 7
□ Yes □ No	Oxytetracycline
□ Yes □ No	Potassium Permanganate: See additional reporting requirements on page 7
□ Yes □ No	Romet
□ Yes □ No	SLICE (emamectin benzoate)
□ Yes □ No	Sodium Chloride - salt
☐ Yes ☐ No	Vibrio vaccine
☐ Yes ☐ No	Other:
☐ Yes ☐ No	Other:

### Aquaculture Drugs and Chemicals (cont'd)

Describe all drug and/or chemical treatments that occurred during the year. Fill out the information below for each drug or chemical, plus page 7 for water-borne treatments. Attach additional pages as necessary.

Brand Name:		Generic Name:	
Reason for use:			
☐ Preventative/Prophylactic☐ As-needed	Total quantity of formulated product per treatment (specify units):	Total quantity of formulated p (specify units):	roduct used in past year
Date(s) of treatment:			Total number of treatments in past year:
Maximum daily volume of treated water:	Treatment concentration (specify units):	Duration and frequency of treat	tment(s):
Method of application:	☐ Static Bath ☐ Flow-through	☐ Medicated Feed ☐ Other (describe):	
Location in facility chemical was used (check all that apply):	☐ Raceways ☐ Incubation building	☐ Ponds ☐ Off-line settling basin	☐ Other (describe):
Where did water treated with this chemical go? (check all that apply):	☐ Discharged w/o treatment☐ Settling basin	☐ Septic System ☐ Publicly owned treatment works	☐ Other (describe):
Provide any additional informati	on about how this chemical was u	sed and/or special pollution pre	evention practices during use:
Brand Name:		Generic Name:	
Brand Name: Reason for use:		Generic Name:	
	Total quantity of formulated product per treatment:	Generic Name:  Total quantity of formulated p (specify units):	roduct used in past year
Reason for use:		Total quantity of formulated p	roduct used in past year  Total number of treatments in past year:
Reason for use:  □ Preventative/Prophylactic □ As-needed		Total quantity of formulated p	Total number of treatments in past year:
Reason for use:  Preventative/Prophylactic As-needed  Date(s) of treatment:  Maximum daily volume of	product per treatment:  Treatment concentration	Total quantity of formulated p (specify units):	Total number of treatments in past year:
Reason for use:  Preventative/Prophylactic As-needed  Date(s) of treatment:  Maximum daily volume of treated water:	Treatment concentration (specify units):	Total quantity of formulated p (specify units):  Duration and frequency of treat	Total number of treatments in past year:
Reason for use:  Preventative/Prophylactic As-needed  Date(s) of treatment:  Maximum daily volume of treated water:  Method of application:  Location in facility chemical was used	Treatment concentration (specify units):  Static Bath Flow-through	Total quantity of formulated p (specify units):  Duration and frequency of treat  Medicated Feed Other (describe):	Total number of treatments in past year: tment(s):

## Aquaculture Drugs and Chemicals (cont'd) Additional Reporting Requirements for Water-Borne Treatments

- If a water-borne treatment was used during the calendar year, Permittees must include detailed records/calculations as an attachment to this Annual Report in order to demonstrate how the maximum effluent concentrations of solution and active ingredient were calculated for each chemical.
- EPA recognizes that water-borne treatments may vary in the volume of the vessels treated, concentration, quantity of product, etc. Permittees must provide the information listed in the following tables for a reasonable worst case (i.e., maximum effluent concentration) scenario, not for each individual treatment.
- Permittees must submit this information and calculate the maximum effluent concentration for each water-borne chemical used during the past calendar year.
- See also Appendix D for the Chemical Log Sheet.

Static Bath Treatments	
Tank Volume	Liters
Desired Static Bath Treatment Concentration	μg/L
Volume of Product Needed	Liters Product
Maximum Effluent Concentration of: 1) Solution and 2) Active Ingredient	Solution:  Active Ingredient: Specify Units
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day	Specify Units
Maximum % of Facility Discharge Treated	% of Total Discharge

Flow-Through Treatments		
Tank Volume		Liters
Calculated Flow Rate		Liters/Minute
Duration of Treatment		Minutes
Desired Flow-Through Treatment Concentration of Product		μg/L
Amount of Product to Add Initially		Liters Product
Amount of Product to Add During Treatment		mL/Minute
Total Volume of Product Needed		Liters Product
Maximum Effluent Concentration of:	Solution:	
1) Solution and 2) Active Ingredient	Active Ingredient:	Specify Units
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day		Specify Units
Maximum % of Facility Discharge Treated		
		% of Total Discharge

### **Changes to the Facility or Operations**

Describe any changes to the facility or operations since the	e last annual report.	
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### Signature and Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly evaluate and gather the information submitted. Based on my inquiry of the person or persons, who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Merle Sefferson	LIR Director
Printed name of person signing	Title
Merle Mous	1/29/18
Applicant Signeture	Date Signed

### **Submittal Information**

Send the complete, signed information, along with any attachments, to the following address:

U.S. EPA Region 10, OWW-191

Washington Hatchery Annual Report

1200 Sixth Avenue, Suite 900

# Attachment 1 - Calculations for Skookum Creek Hatchery PVP Iodine

Calculations for Flow-Through

		Water F	Nater Flow per	-			Total	100	Instantaneous %		,,		
Incubator	#	Incubator	ator	Volume (min) [x	Rate 8 for	Treatment	Effluent	Treatment	lodine in Incubation	Fffluent	% Instantaneous lodine in	% logine in	Instantaneous Active Iodine in
	Incubators GPM	GPM	LPM	(r)	Heath]	Volume (L)		Volume (L)		(LPM)	Hatchery Effluent	10 Mins	Effluent (L)
Nopad	8	6	34	267.4	7.86	0.2	272	16	5.88%	11 551	0.00138	0.000138	0.0000138
Heath Stacks	16	4	15	9.46	5.05	0.1	240	1.6	0.67%	11,004	0.00014	0.000014	0.0000014
Total							512	17.6	6.55%			0.000152	0.0000152

Calculations for Required Treatment Volume

same time. In reality, this is not realistic due to the timing differences of spawning for spring chinook and coho. I felt that breaking Note: The effluent calculations are based upon a worst case scenario where all incubators are filled and requiring treatment at the down the treatments on a realistic schedule would be difficult for me to calculate and highly confusing for anyone evaluating the calculations due to 2 incubators types and 2 different purposes for treatment.